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First question: Put $(\sqrt{})$ or (X):

1-Solve the problem means the aim or result is accessed.	(x)
2-The problem is reaching a goal or a specific output is required through sequential steps	and
activities and specific data.	(x)
3-Preparation of solution steps (algorithm) is the first stages of solving the problem	(x)
4- Determine the required output and available inputs and arithmetic or logical processes	is
the first stages of the problem and called (problem definition).	()
5-Flowchart is a diagram that uses standard graphical symbols; to illustrate the sequence	of
steps required for solving of a problem.	()
6-Representation of the steps to resolve the problem with the Flowchart flow more difficu	<mark>ılt to</mark>
resolve the problem for programmer.	(x)
7- The flow of steps will always be from top to bottom or from left to right.	(x)
8- The variable where to store the value is located on the side of equation.	(x)
9-Called on the experience of the program on the data results known in advance is	
(documentation stage).	(x)
10- The symbolis used when a question has more than one alternative.	(√)
11- Two paths (lines) should come out from the diamond	()
12- The symbol is used in the flowcharts to indicate to decision.	(x)
13- Program Doumentation is useful when severl people share designing the	
same program.	()
14- The (algorithm) it means Identify the problem or access to specific output.	(x)
15- You can use any Geometric shape to represent Algorithms when drawing flowcharts	(x)
16- Flowcharts can be drawn using software only and can't be drawn on paper	(x)
17- The symbol	(√)
18- The rectangle symbol represents only one processing operation	(x)
19- The flowchart must be complete and clear	(√)
20- We can't use the flow line to return to a previous step in the flowchart	(x)
21- It's wrong to write a program without making the right algorithm for it	(√)
22- Every symbol has a meaning and permanent use in all the flowchart and doesn't chang	ge
from one to another	$(\sqrt{})$
23- To represent the inputs in the flowcharts, use enter or Print	(x)
24- The symbol is used in the input output.	()
25- We must test the program validity before documenting it	()
26- From the steps of problem solving are the inputs, outputs, and processing operations.	$(\sqrt{})$
27- $(M = Z + Y + 3)$ is an assignment statement.	(x)
28- $(X = X + Y - 3)$ is an arthimetic operation not an assignment statement.	(x)
29- Variable is a location in the computer memory that has a certain title and its value cha	nges
during the program running.	$(\sqrt{})$
30- The natural direction of the processes and data in flowcharts are from left to right and	
from top to bottom.	(√)

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31- The natural direction of the processes and data in flowcharts are from left to right and from top to bottom. $(\sqrt{\ })$

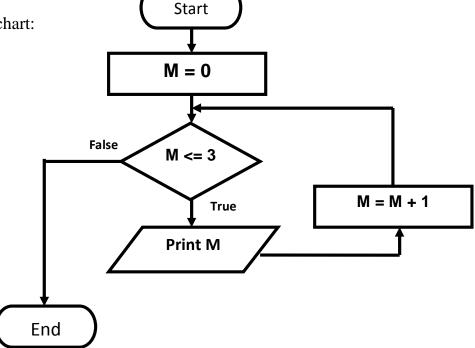
Second question: complete the following statements with appropriate choices:

- 1- Write the all steps that have been taken to solve the problem are called a stage - -
 - a- The documentation.
 - b- Design the program.
 - c- Program testing.
- 2- Are represented by the term $\mathbf{Sum} = \mathbf{A} + \mathbf{B}$ in the Flowchart through the Figure



C)

3- In the following flow chart:



(The number of iterations) to print the value of (**M**) is......

a) 2

b) 3

- c) 4
- 4- In the previous question the value of (\mathbf{M}) after the end of the repetitive loop equals
 - a) 2
- b) 3
- <u>c) 4</u>
- 5- Specification and meal preparation required and determine the available data is..........
 - a) Problem definition.
 - b) Algorithm.
 - c) Flow Chart.

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- 6- The Flowchart for resolving the problem of printing the numbers from 1 to 11 contain.....
 - a) Sequential
 - b) Branching
 - c) Looping
- 7- View steps to resolve the problem of agreed forms of geometry called.........
 - a- Flowchart

- b- Algorithm
- c- Interface
- 8- Any of the following forms of decision in the Flowchart

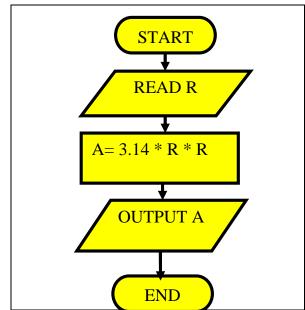
b)

- 9- is used to express a comparison or choice.
 - (Decision Flow line – Input / Output)
- 10- means a store the computer memory that has a certain title and its value changes during program.
 - (Assignment Statement Variable Algorithm)
- 11- Is a set of logically ordered steps which are applied for achieving the required target by using certain inputs.
 - (Assignment Statement Variable Algorithm)
- 12- means reaching a specified target using given inputs
 - (Problem Problem solving Algorithm)
- 13- Is used to convert the flowchart into a program that the computer can understand.
 - (Programming language Problem solving Algorithm)
- Q.3-The Figure shows a flow chart for calculating the area and circumference for a circle, given: the radius of the circle R

A= 3.14 * R * R C= 2 * 3.14 * R
START
END
ΟΠΤΡΙΙΤ Δ

OUTPUT A **OUTPUT C**

READ R



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Q.4: Write down the Algorithm, and draw a flowchart that will calculate any one of these operations (Sum, Product or Subtract) of two numbers entered by user and display the result.

Algorithm	flowchart
1- Start	Start
2- Enter A, B	Enter A, B
3-Sum = A + B	Sum = A + B
4- Product = A * B	Product = A * B
5- Subtract = A - B6- Print Sum, Product and Subtract	Subtract = A - B
7- End	Print Sum, Product and Subtract
	End

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Q.5: Write the solution steps and complete the drawn flowchart to calculate the sum of three numbers A, B, C, then calculate Sum square and finally calculate Numbers squares.

Bearing in mind that the equation of the sum is: Sum = A + B + C

Sum square is: $DS = (A+B+C)^2$

Numbers squares is: $Ds^{2} = (A)^{2} + (B)^{2} + (C)^{2}$

Algorithm	flowchart
1- Start	Start
2- Read A, B and C 3- Sum = A + B + C	Read A, B and C
$4- DS = (A+B+C)^2$	$\mathbf{Sum} = \mathbf{A} + \mathbf{B} + \mathbf{C}$
5- $\mathbf{Ds}^2 = (\mathbf{A})^2 + (\mathbf{B})^2 + (\mathbf{C})^2$	$DS = (A+B+C)^2$
6- Print Sum	$Ds^{2} = (A)^{2} + (B)^{2} + (C)^{2}$
7- Print DS	Print Sum
8- Print Ds ²	Print DS
9- End	Print Ds ²
	End

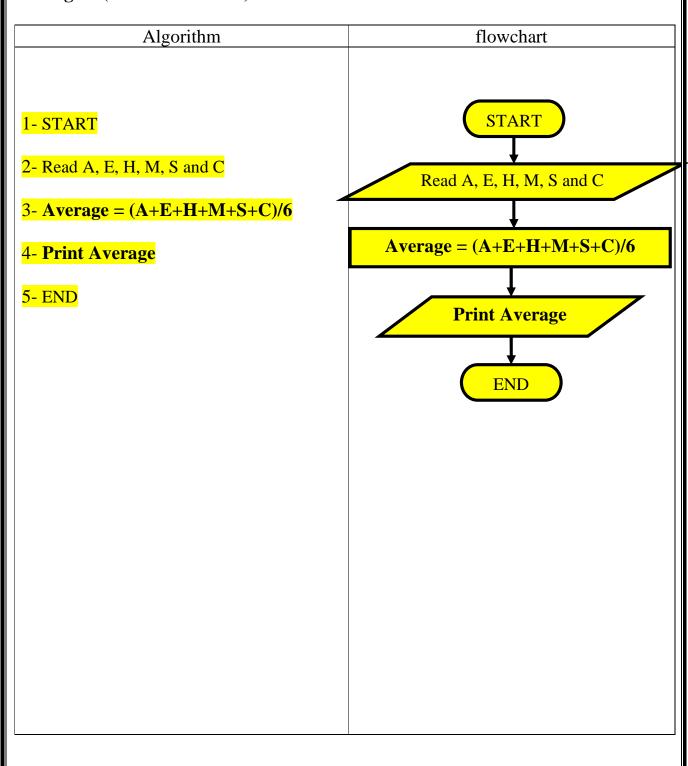


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Q.6: Write down the Algorithm, and draw a flowchart that will calculate the Average of the total degrees of a student.

Bearing in mind that the equation of the Average is:

Average = (A+E+H+M+S+C)/6.



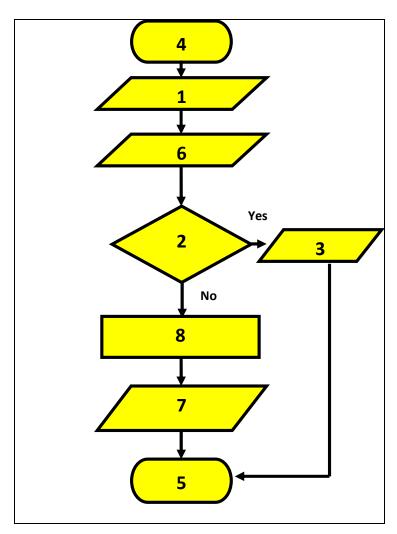
Q.7: In the following table; type the number in front of each command that refers to its correct place in the "Flowchart" to determine if the input number is (even or odd)

Start	(1)	Res = N mod 2
5 1	(2)	Is res ≠ 0
No	(3)	Output "number is odd"
Yes 3	(4)	Output "number is even"
End	(5)	Input number N



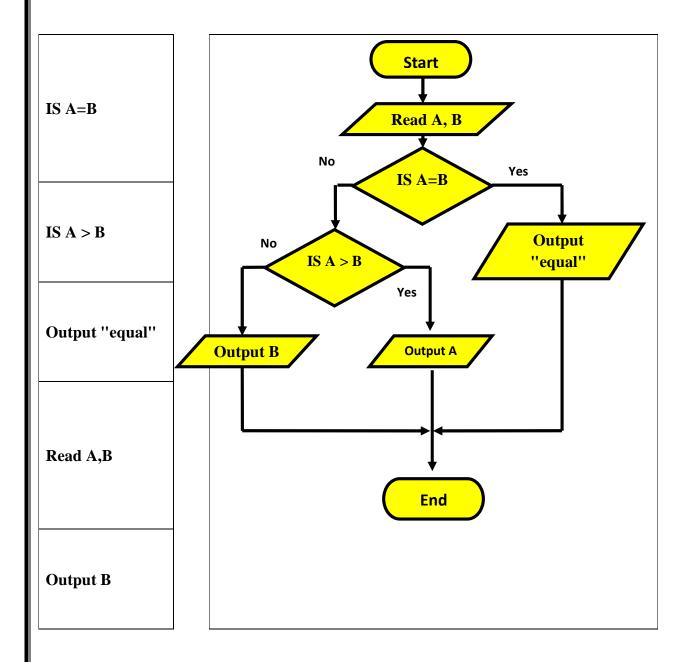
Q.8: The Figure shows a flow chart for calculating the division of two numbers

1	Read number1
2	is number2=0
3	Print "not defined"
4	Start
5	End
6	Read number2
7	Output the result
8	result=number1/number2



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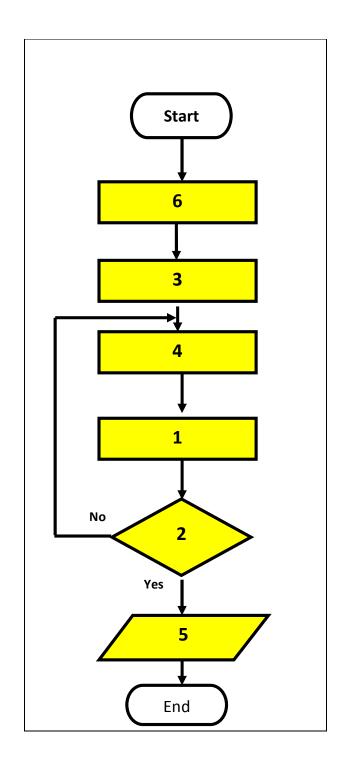
 $\underline{O.10:}$ The Figure shows a flow chart to find the maximum number among two numbers .In the case of equality output the message "equal"



Q.11: The Figure shows a flow chart that will print even integer numbers from 2 and 10.

$$1 \quad | \mathbf{N} = \mathbf{N} + \mathbf{2}$$

- 2 | N > 10
- $3 \mid Sum = 0$
- $4 \quad | \mathbf{Sum} = \mathbf{Sum} + \mathbf{N}$
- 5 Print Sum
- 6 N=2



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<u>Q.12:</u>

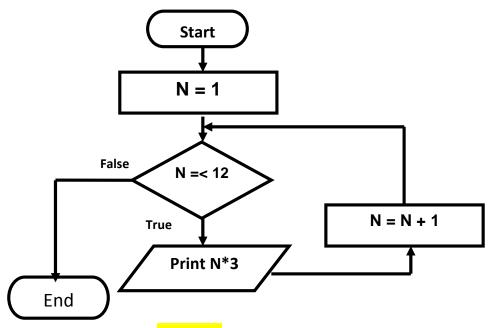
a) Draw a flowchart to print out even numbers from 2 to 10.

The Algorithm	The Flowchart
1- Start	Start
2- M=2	
3- If M<=10 Then	M = 2
3-1 Print M	False
3-2 M=M+2	M =< 10
3-3 Go To step(3)	True
4- End	Print M
	M = M + 2
	IVI = IVI + Z

b) Draw a flowchart to print out the multiplication table for any number.

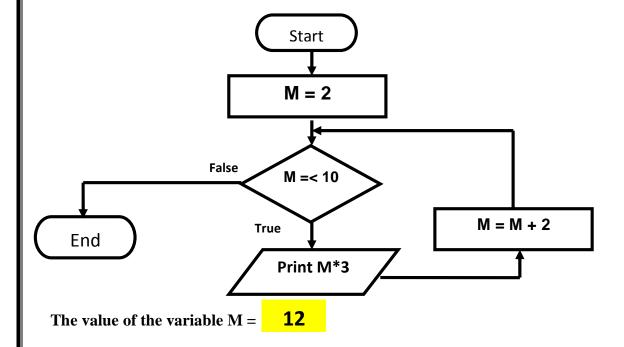
The Algorithm	The Flowchart
1- Start	Start
2- Enter N	
3- J=1	Enter N
4- If J<=12 Then	J = 1
4-1 Print J*N	<u> </u>
4-2 J=J+1	J =< 12
4-3 Go To step(4)	
5 End	True
	Print J*N
	J = J + 1
	J = J + 1 End

Q13: A) type the value of the variable after the out of the loop iteration:

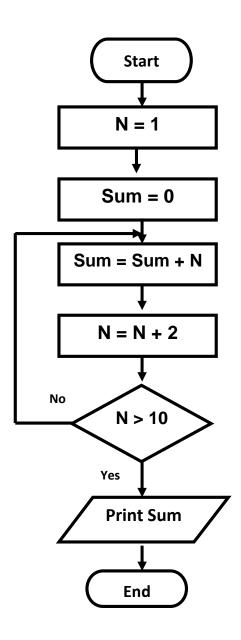


The value of the variable $N = \dots$ 13 ...

B) Type the value of the variable after the out of the loop iteration:



C) Type the value of the variable after the out of the loop iteration:



The value of the variable N = 11

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Q14: Complete the following:

- 1- Terminal Symbol has one flow line leaves it at the beginning and one flow line enters it at the end.
- 2- Symbol is used for input / output.
- 3- Decision Symbol is used for comparing two values.
- 4- Process Symbol is used when writing the arithmetic operation.
- 5- <u>Problem Solving</u> Is an aim or output which is needed to be achieved through applying a set of steps in a certain order.
- 6- Flowchart facilitates converting the steps of a problem solving in a program through one of the programming languages.
- 7- To represent the outputs in the flowchart, use (Output) or (Print).
- 8- <u>Define the Problem</u> is specify the required output and available input and processing the equations.
- 9- Problem means attain to objective or an output through a sequence of steps and activities.
- 10- In data the right side of the equation contains the value which needs to store.

Q15: Complete the following steps to get the result of dividing two numbers:

- 1- Start
- 2- Enter N1, N2
- 3-If N2 = 0 Then
 - 3-1 Print Unknown
 - 3-2 Go to step <u>5</u>
- 4 Else
 - 4-1 $R = \frac{N1}{N2}$
 - 4-2 Print <u>R</u>
- 5 End

Q.16: Re-arrange the following steps for problems solving:

- Design the program on computer. (3)
- Program Documentation. (5
- Test the program validity and correct errors. (4
- Define the Problem. (1
- Prepare the Algorithmic solving steps. (2)

Q.17: Give one word

- 1. A group of instructions ordered in a certain manner, and when they are executed, we reach a certain target.

 (Algorithm)
- **2.**Specify the required output and available input and processing the equations.

(**Define the Problem**)

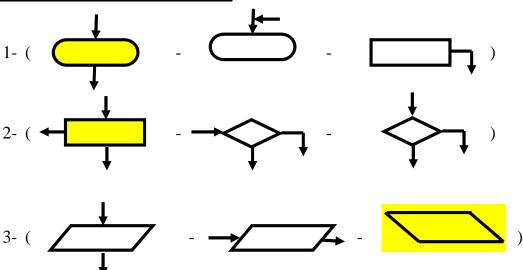
- 3.A diagrammatic representation which explains the order of instructions required to solve problem. (Flowchart)
- 4. To record all the applied steps for problem solving. (**Program Documentation**)

Q.18: Complete the following sentences from the brackets:

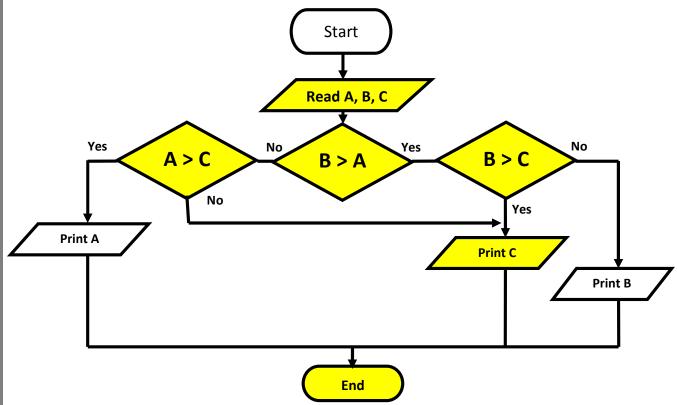
(Flow line – Terminal – Decision – Program Documentation)

- a) **Terminal** symbol is used in the start and end of the flowchart.
- b) The last step in the problem solving is **Program Documentation**
- c) Flow line symbol is used to connect the symbols of the chart
- d) **Decision** symbol is used to represent a question with (Yes / No) answer

Q.19: Circle the wrong symbol:

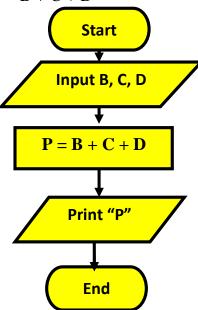


Q.20:Complete the following flowchart to find the maximum number among three numbers.



Q.21: Complete the following flowchart to read three side's length of a triangle "B", "C" and "D" then find perimeter of triangle.

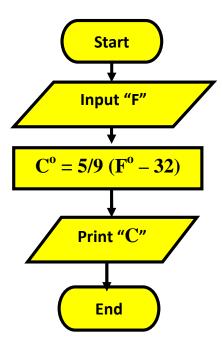
Bearing in mind that the equation of the perimeter is: P = B + C + D



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Q.22: Draw a flowchart that read a temperature in Fahrenheit's degree and convert into Celsius degrees, using the formula:

 $C^{0} = 5/9 (F^{0} - 32)$



Q23- Re-write the following sentences after correcting the underline:

1. <u>Algorithm</u> represents achieving a certain, needed aim or output through sequent steps and activities and certain inputs

....<mark>Problem Solving</mark>

2. **Programming Languages** is asset of logically ordered steps which are applied to achieve the required aim

....<u>Algorithm</u>.....

- 3. To represent branching in the flowchart, use **Processing** symbol **Decision**
- 4. The data of a problem with previously known outputs used for detecting errors in the **Program Documentation**

Testing the program

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Q.24: Draw the suitable symbol in the following table:

Q.2 ii Diaw the saltable symbol in the lonowing table.			
	Statement	Symbol	
1	A > B		
2	H = R + 2		
3	Read N1, N2		
4	Start		
5	Output Sum		

Q.25: Match from (A) with the suitable in (B):

Statement			Symbol	
1	Flowchart	<u>(4)</u>	To represent data input in the flowchart	
2		<mark>(2)</mark>	To type an assignment statement or arithmetic operation.	
3		<mark>(5)</mark>	To represent the start and the end of the solution.	
4		(1)	It is a diagrammatic representation that illustrates the sequence of operations to be preformed to get the problem solving.	
5		<mark>(3)</mark>	To represent a statement, question or choice.	

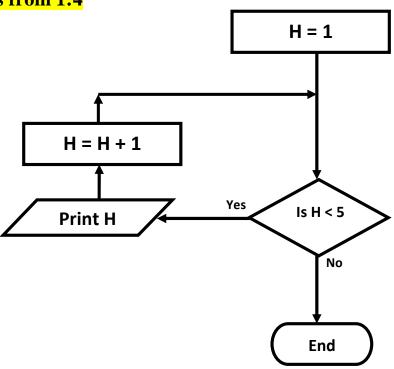
Q26- Match from (A) with the suitable in (B)

_	Q20 Matter Hom (H) With the Saltable in (D)			
	A	В		
1	\Diamond	Connect Flowchart symbols with each other (3)		
2		Used at start and end of Flowchart (4)		
3		Used in decisions (1)		
4		To enter data (<mark>5</mark>)		
5		For processing statement (2)		

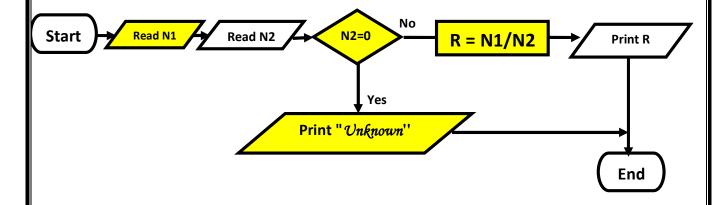


Q.27: What is the result of the following flowchart?

Printing the numbers from 1:4



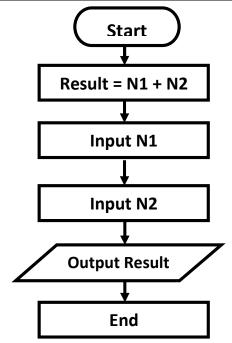
Q.28: Complete the following flowchart which represents entering two numbers, then dividing and representing the result.

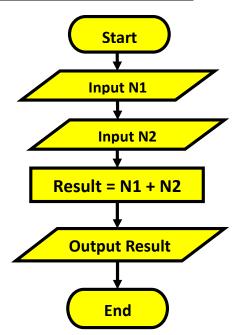




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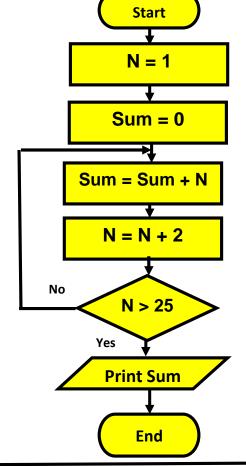
Q.29.: Re-draw the following flowchart after correcting the errors:





Q.30:: Draw a flowchart to calculate the sum of odd numbers in the sequence

 $Sum = 1 + 3 + 5 + \dots 25$



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Chapter 2

Question 1: Put $(\sqrt{})$ or (x):

1- Visual Basic language feature is not Object orientated Programming. 2- Visual Basic language is used to create Web applications or Windows applications.	(\mathbf{X})		
3- Using the programming language is written orders and instructions in the English language			
that the computer can handled directly.	(\mathbf{X})		
4- The example of Windows applications Notepad program.			
5- Clicking on one of the buttons so-called call property.	(\mathbf{X})		
6- Object it is the blueprint, from which the individual class is created.	(\mathbf{X})		
7- Object has Properties, Methods, and Events.	$\left(\begin{array}{c} V \end{array}\right)$		
8- Class contains the object definition.	(N)		
9- Object when there is a copy (instance) of the class its own.	(V		
10- Can create more than one class of the same object.	(\mathbf{X})		
11- Through the .Net can produce desktop applications and mobile applications.	(\(\)		
12- CLR indicating System Class Libraries.	(\mathbf{X})		
13- Framework consists of the CLR, Compilers, System Class Libraries and other tools.	(\mathcal{N})		
14-Framwork provides design and running environment, for .Net Applications.	(1)		
	(\mathbf{X})		
16-Form window is a designed the program interface or application.	(\vee)		
17-one of the tools that it cannot be placed on the form window is the (Label) control.	(\mathbf{x})		
18- Not required to be there for the properties of the controls that draw on the window form	n <mark>(X)</mark>		
19- In (IDE) screen, displayed properties differ upon the selected element.	(\checkmark)		
20- Toolbox displays a list of files and folders of the project or the projects within			
the solution.	(\mathbf{X})		
21-When you create a new project, you can choose from several templates including window	OWS		
Application.	(γ)		
22- Solution Explorer window is a component of the IDE.	(\vee)		
23- Any project consists of only one form window.	(\mathbf{X})		
	(\mathbf{x})		
25- When you save the project for the first time shows the name of the project and the solu	ition		
is the same.	(\mathcal{N})		
26-you can add a new project within the current solution or a new solution.	(1)		
27-The Class is constructed out of Object.	(\mathbf{X})		
28- We have only one way to create a project file ————————————————————————————————————	(\mathbf{X})		

29- When we create a new project a form is created ($(\sqrt{})$				
30- A new form is added to the project from View menu ((\mathbf{x})				
31- Event is an action performed on the object (V)					
32-It is not possible to add a new project to the Solution without saving the first project and	d				
solution	()				
33-Visual Basic.Net depends on the objects.	()				
34-The window applications have not a graphical user interface. ((\mathbf{x})				
35-All the Controls such as the Button, the Textbox, and the Label are objects.	()				
36-Computer understands and executes command written in English only. ((\mathbf{x})				
37-The solution Explorer has shown the controls properties. ((\mathbf{x})				
38-Each programming languages contains a compiler translates commands into machine					
language.	(1)				
39-The computer cannot understand a program that written in a Visual Basic.Net language	(X)				
40-The toolbox is a set of buttons that represent shortcuts to execute menu commands. $($	(\mathbf{x})				
41-From (file) menu choose (save as); to save project on one of the storage devices.	$(\sqrt{})$				
42- In the Visual Basic.Net language, the object belongs to a certain class.	(√)				
43- The computer cannot understand a program which written in one of the programming					
languages.	1)				
44-We cannot change the name of the project, which already written after its creation.	(\mathbf{x})				
45- Class is used to perform the object tasks.	(\mathbf{x})				
46-The Toolbox is a set of buttons that represent shortcuts to execute menu commands. ((\mathbf{x})				
47-Each object has a set of properties which refer to the object behavior.	(\mathbf{X})				
48-Each any button on the calculator is an object and has properties.	(1)				
49-A place in the memory is reserved for each object in Visual Basic.Net before					
it is created.	(\mathbf{X})				
50-All programming languages write orders in English letters.	(\mathcal{N})				
51-Each language of programming languages contains a compiler.	(1)				
Second question: complete the following words with appropriate choices					
1- Visual basic.Net a					
a) Programming language b) IDE c) Windows application					
2a collection of orders and instructions are written according to certain rul	ec				
a) Programming language b) IDE c) Windows application	Co.				
3-Compiler is used to convert a language understand by the computer.					
a) Instructions b) CLR c) VS					

4-GUI means	
a) System Class Libraries <u>b) GUI</u>	c) Operating environment
5- Mean that Windows applications from in the eve	ent that
	s code the occurrence of a specific event
6- Refers to the properties of the object as	
a) describes the object b) It can be located	-
7- Is The basic constr	-
Programming languages it is created from a define	
a) Properties <u>b) Object</u>	·
8- Containsthe object	
a) IDE b) CLR	<u>c) Class</u>
9is a central nervous system	
a) Visual Studio dot net b) ID	
10- Framework provides an environment for running	
a) <u>CLR</u> b) programming l	
11-IDE means	
a- System Class Libraries	
b- Integrated Development Environment	-
c- Operating environment	
12- One of the components of IDE	
a) Properties b) Object	
13-In the Properties window displays a list of activ	e Item properties ingredient equivalent
a- description of each property	
b- alternative each property	
c- present value for each property	
14-Solution explorer Solution Explorer contains	
a- Only one project b- A maximum of	
15-To create an application window choose templa	
	ass Library c) Console Application
16- The number of allowable forms is added to the	project is
a- one only <u>b- is not restricted to</u>	c- a maximum of two
17-When you save a project in a solution did not sa	ave by match name
with	
a- Project name with the name of the Sol	ution_
b- The Project with the IDEc- The Solution with the IDE	
C- The Solution with the IDE	

18- To know the projects that has been added to the resort window
a) Properties window b) Tool Box c) the solution
19- From (Save as – Save All – File) menu choose
(Save as – <u>Save All</u> – File) to save the project.
20- From (File) menu choose To create a new project.
(Visual Basic.Net – <u>New project</u> – New form)
21- From (Project) menu choose To add a new form.
(<u>Add windows form</u> – Add form – Add window)
22- The computer understands one language is
(English language - Machine language - Latin language)
Question 3: Place the appropriate number in front of the column (b), including suited
of the column (a)

	A		В
1	Visual Basic.NET	(3)	Is a central nervous system for all applications of dot net
2	Visual Studio.NET	(2)	One of the languages of the dot net
3	.NET Framework	(1)	From the integrated development environment IDE
4	CLR	()	Translate orders and instructions written in a programming language into a language understood by the computer
5		<u>(4)</u>	Operating environment for applications of dot net

	A	В	
1	compiler	(2)	From the Toolbox Controls
2	Button – Label - Textbox	(3)	That describes the object
3	Properties	(4)	Action that occurs on the object
4	Event		Translate orders and instructions written in a
		(1)	programming language into a language
		,	understood by the computer
5		()	Examples of IDE

	A	В		
1	object	(3)	The Blueprint that the object originates	
2	IDE	<u>(4)</u>	A set of commands and instructions are written according to certain rules	
3	Class	(2)	An integrated development environment	
4	Programming Language	(1)	A specific classification is built	

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Q4: Complete the following

To add a new project to the (solution), the steps will be as the following:

- 1) Open File Menu
- 2) Select **Add**
- 3) Select New Project from the sub-menu that will appear.

O. 5: Give one word

1-Integrated Development Environment

(IDE)

- 2-The basic constructive element in Object Oriented Programming languages (Object)
- 3-One of the components of IDE where the tools appear as sets or categories (**Tool Box**)
- 4- It is the blueprint, from which the individual objects are created object. It has (properties, methods and events) which any created object takes (Class)
- 5- A window in the Visual Basic containing the names of the project and the name of the Project's files and folders.

 (Solution Explorer Window)
- 6- A set of instructions or commands which are written in English upon defined rules according to each programming language (Programming language)
- 7- It is the language which the computer understands and executes (Machine language)
- 8- Used to create several applications as: Desktop applications, Web applications

(.Net Framework)

- 9- An action which occurs on the object when left clicking on it (Event)
- 10- The window of the application (The user interface); what users will see and work with when they run this application. (Form)

Q6- Complete the sentences with the following:

(Object - Class - Visual Studio - .NET framework - Programming language - Form)

- 1- **Visual Studio** is used in the development and design of (Desktop application) (Web application) (Mobile application).
- 2- Through **Programming language**, Instructions, and commands are written according to certain rules; and then translated to machine language.
- **3-** .NET framework provides an environment that enables developers to design and execute (.NET applications).
- 4- **Object** is defined as: The basic constructive element in Object Oriented Programming; it is created from a defined class.
- 5- The blueprint, from which the individual objects are created; is called **Class**

Q7 - Fill in the spaces using one of the following words:

(properties – event - method - Object)

- 1. PC is considered Object
- 2. PC size is considered properties
- 3. Clicking the mouse inside the window is considered event
- 4. Opening a certain program from PC is as method

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Q8: Complete the following

- 1- Object has properties, methods and events.
- 2- The Solution Explorer Window window displays the names of files and folders of the project or projects within the solution.
- 3- IDE environment used to create applications Windows applications, Web applications and Mobile applications.
- 4- The length, the width and the color for the object are property
- 5- Machine Language is the only language understood by the computer and executed.
- 6- Tool Box contains the controls (objects) that are place on the form.
- 7- The Solution Explorer and the properties window of the components of IDE
- 8- **IDE** Is the abbreviation to the integrated development environment.
- 9- <u>Programming Language</u> written in English letters, but specific rules vary from one language to another and are translated into machine language.
- 10- Class it is a blueprint which objects created.
- 11- Open Project menu and choose Add windows form to add a new form.

Chapter Three

First question: Put $(\sqrt{})$ or (x):

1- There are no common (Properties) between one (Control) and another.	(X)
2- Some (Properties) are not effective unless other (Properties) are adjusted first.	()
3- There are properties of the window form if you were adjust apply also to the tools draw	wn on
the window form.	()
4- Characterized by properties that do not have default values.	(X)
5- The default values of the Name, Text properties are the different in the Form control.	(X)
6- BackColor property to set the foreground color.	(X)
7-The property responsible for setting the writing direction of tools on the Form is	
RightToLeft.	()
8- The property responsible for adjusting the Layout direction of tools on the Form is	
RightToLeftLayout.	()
9- RightToLeftLayout property does not support the RightToLeft property.	(X)
10- Is set to hide Maximize Box make the property value of the MaximizeBox = False.	()
11-Yo can hide the form outline by the FormBorderStyle property.	()
12- Some (Properties) are not effective unless starting the program.	()



13- After Start Debugging Cannot stop the program. (x)
14- Can control the position of the Form window started to through the StartPosition
property. ($$)
15- Can determine if the from window where the zoom (Maximized, Minimized, Normal)
through the WindowState property.
16- Command Button is used to perform a specific task by clicking it.
17- When you change the position of a command Button with your mouse to change the value
of the property Size . (X)
18- When resizing the command Button with your mouse to change the value of the property
Location. (X)
19- Is the possibility of changing the size of most controls when put of mouse direction in the
one of the eight boxes after you activates that tool.
20- Font property for the command Button is a text displayed on the command button. (x)
21- Size property for the command Button set the height and width of the (Button) on the
Form's window.
22- Advantage of the Label tool that cannot be written directly by the user.
22- Advantage of the Label tool that cannot be written directly by the user. 23- To control the size of the Label control by the Size property. 24 - You can adjust AutoSize property after adjust the Size property of the first. (x)
24 - You can adjust AutoSize property after adjust the Size property of the first. (X)
25- In the TextBox control you can write any number of letters, numbers and
symbols without a maximum. (x)
26- PasswordChar property uses to place any symbol appears instead of the text
inside the text box.
27- Can write several lines of Multiline property in the Textbox control.
28- If the SelectionMode property you can make select more than one item in a ListBox. (\forall)
29- Cannot be in alphabetical order of the elements of the ListBox tool. (x)
30- By adjusting the Items property is put the elements in the ListBox and ComboBox
controls.
31- Can show a list of Suggest for elements of the tool ComboBox By adjusting the
AutoCompleteMode and AutoCompleteSource properties.
32- "Group Box" control is used in grouping a set of controls and displaying them in
one group.
34- The RadioButton tool is used to display alternatives and the user can choose more than
one. (X)
35- By "GroupBox" control we can make "Radiobutton" control used in choosing more than
one option at the same time.



36- The (Name) property limit	position appears the form w	indow on the screen. (X)	
37- The value of the text property for a Form appears on the taskbar. (x)			
38- The default value for the te	• • • • • • • • • • • • • • • • • • • •		
window is (New Form).		(x)	
39-You can't change the locat	ion of the Button by clicking		
_	·	ne title bar of the Form window (\checkmark)	
41- ListBox control doesn't ha		(1)	
The second question: Comp		by matching choices:	
		usting property	
a) RightLayout) RightToLeft	
	perty is found in many control		
a) Font	b) PasswordChar c)		
3- In the Properties window the		_	
a) Means the methods of			
b) Properties of the activ	e control		
c) Properties value			
4- Default value for the	property match	default value of the Text property	
in Form window.			
a) Tag	b) Name c)) Font	
5- To adjust the direction of wr	riting within the Tools in the	Form window using property	
a) RightToLeft	b) RightToLeftLayout	c) Text	
6- If the ControlBox property	is set to the False value the	ControlBox is	
a) becomes unavailable	b) shows	c) disappears	
7- Through the	property can control	the outline of the form window	
a) FormBorderStyle	b) BorderStyle	c) Borders	
8- Property	Shows the effect aft	ter StartDebugging	
a) BackColor	The state of the s	c) ShowInTaskbar	
		hen put pointer of mouse direction	
in the one of the	<u> </u>		
	a of the bondons of the tool		
	ne of the borders of the tool		
appears on some of the tools		etermining the color of the text that	
appears on some of the tools a) Color	Responsible for d	etermining the color of the text that	
appears on some of the tools	b) BackColor	etermining the color of the text that c) ForeColor	
appears on some of the tools a) Color	b) BackColor tool use Size property, afte	etermining the color of the text that c) ForeColor	

12- To adjust the outline of	the Label tool use property	y		
a) BorderStyle	b) FormBorderStyle	c) Borders		
13- TextBox used in				
a) display Form titles	b) receiver input user	c) display a list of items		
14- Property uses	s in order of elements in the Lis	stBox tool		
a) Selection Mode	b) Items	c)Sorted		
15- The tool that draped them t	o view a list of its elements is			
a) ListBox	b) ComboBox	c)GroupBox		
16- The	tool is used to separate the two	sets of RadioButton		
a) ListBox	b) ComboBox c) C	<mark>FroupBox</mark>		
17- The property responsible for	or identifying alternative chose	n in the CheckBox and		
RadioButton controls is				
a) Select b) Ch	ecked c) SelectN	Mode		
18- The key responsible for Sta	artDebugging is			
a) F1 b) F5	c) F7			
19-To hide zoom button for the	Form window, select property	<i></i>		
(False	MinimizaDov	ovimiza Dov)		
(raise	– <mark>MinimizeBox</mark> – M	axiiiizebox)		
20-Look at the figure below an	d then select the property used			
	The Area 🖳 🖳 The Area			
(Digi	ntToLeftLayout - RightToLef	ft Font)		
	roperty have many values if it	·		
will allow to resize the form u		takes the value it		
win anow to resize the form a	(None - False - sizable	<mark>e</mark>)		
22-The effect (ShowInTaskbar) property appears in status				
(Design mode - Run mode - Design and Run mode)				
23- In order to appear the Form window in the middle of the screen at startup				
select property				
(WindowState - StartPosition – Maximize) 24- The (FormBorderStyle) property have many values if it takes the value it will				
//:=	roperty have many values if it	takes the value it will		
· · · · · · · · · · · · · · · · · · ·	<u> </u>	takes the value it will		
allow to resize the form using	<u> </u>			
allow to resize the form using 25- The effect (ShowInTaskb	borders.) 		

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26- In order to appear the Form window in the middle of the screen at startup select property

(WidowState - StartPosition - Maximize)

Question 3: Place the appropriate number in front of the column (b), including suited of the column (a)

	A	A B		
1	PasswordChar	<u>(4)</u>	Belong to Form	
2	AutoCompleteMode	(1)	Belong to Textbox	
3	AutoSize	()	Belong to ListBox	
4	ShowInTaskbar	(2)	Belong to ComboBox	
5		(3)	Belong to Label	

	A	В			
1	GroupBox	(2)	Used in the selection of several alternatives		
2	CheckBox	(3)	Is used to click it to perform a specific task		
3	Button	(1)	Includes a number of tools at a specific address		
4	RadioButton	(4)	Used in the selection of an alternative from several alternatives		

Q4- Complete the following table using suitable property:

BorderStyle	Determines the outline border of the Label control.	
ForeColor Procedures	Adjust the text color which appears on the button.	
Name	Contains the name of the button which is used when typing the commands in the Code window.	
AutoSize	Change the Label size automatically to fit its contents.	
Text	Change the content of the TextBox.	

Q5- Second: choose the correct answer:

1. To provide the possibility to choose one and only one item use the control:

A-RadioButton B-Checkbox C - GroupBox D-ListBox

2. To allow the selection of one or more items choose the control:

A.RadioButton B-Checkbox

C-GroupBox D- ComboBox

3. Tou can choose more man	one item if you use.
A-ListBox	B- ComboBox
C-GroupBox	D-RadioButton
4. The Solution Explorer wir	dow contains:
A-(Properties)	B (Controls)
C-Projects	D-All of the above
5. The project can run in test	mode by pressing () From the keyboard
A-F2	B-F4
C-F8	D-F5
6. The value of property (Si	ze) of the buuton1 is 65;34 means that:
a) The width is 34	and the height is 65
b) The height is 34	and the width is 65
c) The length is 34	and the width is 65
7. To copy the command bu	tton control from the toolbox to the form window in design mode
	and button control from the toolbox.
	b) Right Click c) Left Click
8. The value of property (Lo	ocation) of the buuton1 is 98;97 means that:
	and the width is 98
	and the height is 98
	and the width is 97
9. The property (Checked),	
·	Button - CheckBox - All of the above)
	rties in properties window, on it.
	ick - Double-Click - Right Click)
11. If you not see the toolbo	x, you can display it by choosing (toolbox) from the menu.
	(file – edit – <mark>View</mark> – Help)
* * *	have both values (true or False).
(<mark>Ena</mark>	bled – ForeColor – Text – All of the above)
Q6- Completed the foll	owing words of the suit between brackets
(BackC	olor – enabled – Visible – Text - Click – False)
1- You can write on the butt	on using the property Text
2- You can show or hide the	button by using the property Visible
3- You can use property Bac	<mark>ckcolor</mark> To change the background color model
4- The feature is used enabl	ed To know the response tool for the user program, and whether
value <mark>False</mark> The tool dose	not respond to the program



Q7- Complete the following sentences from the brackets:

(Items - MaxLenght - True - TextBox - PasswordChar)

- 1- **TextBox** control is used to input data to program in the start stage.
- 2-To input data in the ListBox, use Items property.
- 3-When AutoSize property takes the value **True** the control size will fit its contents automatically.
- 4-PasswordChar Property is used along with the TextBox when creating a password.
- 5-MaxLenght property is used to adjust number of the written characters in the TextBox.

Q8- The following table lists the properties of the Label control – match each property with its suitable function.

Property			Function		
1	AutoSize	a	Sets the name of the used control in the program code (4)		
2	ForeColor	b	Shows whether the control is automatically resized (1)		
3	Font	c	Sets the border style of the control (5)		
4	Name	d	Sets the font of the text displayed by the control (3)		
5	BorderStyle	e	Sets the text color on the control (2)		

Q9- Match from (A) with the suitable in (B)

A		В	
1	TextBox	Display a set of options to select one option only. (3)	
2	Button	Creates a list of items to select. (6)	
3	RadioButton	Display a set of options to select one or more options. (4)	
4	CheckBox	Allows the user to type in it during the run-time. (1)	
5	Label	Performs a defined task when clicking on it. (2)	
6	ListBox	Displays titles to show the remaining program tools. (5)	

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Q.10: Rearrange the following steps to adjust the value of the text property of the form window:

- (4) Write the new value.
- (1) Active Form window.
- (3) Delete the old value.
- (2) Select the text property value in the properties window.

Q.11: Complete the following statements:

- 1- The left column in the properites window contains properites name but the right column contains the properites value
- 2- Property, which allows controlling from at the beginning of his appearance to become a full-screen is WindowState
- 3- We use (ShowInTaskbar) for show or hide form window icon on the taskbar.
- 4- To hide the Title bar of the Form window, use FormBorerStyle property.
- 5- To start the program, use the Start debugging icon in the Toolbar.
- 6- The control TextBox used for intering data from the user.
- 7- The control <u>Label</u> used as a heading or title for another controls to let the user know the form's content.
- 8- The property <u>BackgroundImage</u> Is used to display the image in the background of the control.
- 9- The propert Checked indicates if the (Radio Button) has been selected or not.

Q12- Pick the different item from the following:

- 1- "Egypt" Enabled True False
- 2- Label Button Click Form
- 3- Name –ForeColor Font <u>True</u>
- 4- VisualBasic.Net j# C# Machine language
- 5- AutoSize Enabled Font Visible
- 6- ComboBox Label <u>Text</u>
- 7- Click True No
- 8- Button ListBox ComboBox
- 9- Properties Algorithm Event Method
- 10- AutoSize Visible "<u>Hello</u>" Enabled
- 11- Tool Box Properties Window Solution Explorer Window Object
- 12- Copy Text ForeColor Enabled

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Chapter (4)

The	first	question:	Put	()	or	(x):
-----	-------	-----------	-----	----	----	---------------

1- Code window from which you can type commands and instructions.					
2- Code window can be opened only by pressing the F7 key. (X)					
3- To open the code window for the first time it appears declares a class with the name of the					
form window. (N)					
4- You can write the code for the form window below the End Class line. (x)					
5- In the IDE title bar shows the solution name and the name of the user's version.					
6- You can open the code window by solution window through the shortcut menu for a form					
window. (V)					
7- Class Name menu in the Code window shows the events that was chosen from a list of					
Method Name. (X)					
8- When you open the list of the Class Name the names of the controls matched for a name					
property each one of them					
9- Event Handler is an event that calls upon the occurrence of an action (x)					
10- When create an event handler consists of Name of the control and name of the event $(\sqrt{\frac{1}{2}})$					
11- Write the event handler code before the Sub line of the event handler					
12- You can adjust the properties through the Properties window only. (x)					
13- To set the properties programmatically using the					
formula ControlName.Property = Value					
14- In the formula ControlName.Property = Value control is represented by a Value (x)					
15-The following code Label1.Text = " I love egypt " the value of an object (x)					
16-in the following code Label1.ForeColor = Color.Red the value from the list					
Second question: Complete the following words by matching choices					
Second question. Complete the following words by matching choices					
1- You can open the Code Window by pressing a key					
u) 10 0)11					
2- The end of the line classification writescode					
a) <u>before</u> b) after c) before and after					
3- Name the event handler when you create through IDE consists of					
a) Name of the control					
b) The name of the event					
c) Name of the control and name of the event					

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Class Name list in the code window displays -----

- a) Names of controls on the form
- b) events that could occur on a control
- c) the names of the various event handlers
- 5- Method Name list in the code window displays----
 - a) Names of controls on the form
 - b) events that could occur on a control
 - c) the names of the various event handlers
- 6- To set the properties programmatically using the formula **ControlName..... = Value**
 - a) Property
- b) Event

- c) Method
- 7- Type the value for the following sentence **Label1.Enabled = True**
 - a) logical
- b) abstract
- c) from list

Question 3: Place the appropriate number in front of the column (b), including suited of the column (a)

A		В			
1	Class Name	(3)	display Events of the selected control		
2	Code Window	(1)	displays the names of the controls on the Form window		
3	Method Name	(2)	From which you can write orders and instructions		
4	End Sub	() The end of the line classification			
5		<u>(4)</u>	The end of the line event handler		

A			В		
1	Sub Button1_Click	(2)	Means the event handler		
2	Event Handler	(3)	Formula set properties programmatically		
3	ControlName.Property=Value	(1)	Name an event handler		
4	End Class	(4)	The end of the line classification		
			The end of the line event handler		

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Q4- Type the necessary code executing the following:

a) Changing the text on "Button1" into "computer"

Button1.Text = "Computer"

b) Changing the background color of "Button1" control into "Blue".

Button1.BackColor = Color.Blue

c) Changing the font color on "Button1" control into "Red".

Button1. ForeColor = Color.Red

d) Deactivate "Button1" control.

Button1.Enabled = False

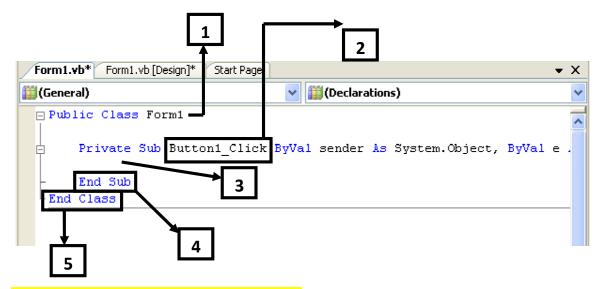
e) Make "Button1 "Control invisible.

Button1. Visible = False

Q5- from the Code window in the figure, complete the following:

- 1- **Click** is the name of the event where the code is written.
- 2- **Label1** refers to the object which will be adjusted.
- 3- **ForeColor** is the property which value will be adjusted.
- 4- The effect of this code when starting the program Change the color of writing into Red
- 5- **Button1** is the object on which the event will occur.

Q6- What do the numbers in the figure indicate?



- 1- The declaration of the Class (**Form1**).
- 2- The procedure name composed of (object name, event name), (Button1, Click)
- 3- Between the two lines shown, you can write statements or codes that will be executed after invoking the procedure.
- 4- The end of the procedure
- **5-** The end of the Class

Q7- Complete the following sentences from the brackets:

 $(Font-End-MethodName-Event\ Handler-Enabled)$

- 1- **Font** property is used to adjust the font style and size.
- 2- We can end the program by writing **End** in the Event Handler.
- 3- **Event Handler** Refers to the invoked procedure when event occurs.
- 4- **Enabled** Property sets the object response to the user during the program run-time.
- 5- **MethodName** Menu in the Code window displays the names of the events related the object.